SAFETY DATA SHEETS

This SDS packet was issued with item:

078912817

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078912848



Revision date: 07-Dec-2010 Version: 2.0 Page 1 of 7

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Pfizer Animal Health
Pfizer Inc
Street
CT13 9NJ
New York, NY 10017
Poison Control Center Phone: 1-866-531-8896
Pfizer Ltd,
Kent
CT13 9NJ
United Kingdom
+00 44 (0)1304 616161

Technical Services Phone: 1-800-366-5288

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: pfizer-MSDS@pfizer.com Emergency telephone number:

ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: Clostridium chauvoei-septicum-novyi-sordellii-perfringens Types C&D-pasteurella haemolytica Bacterin-Toxoid

Trade Name:
Chemical Family:
Intended Use:
One Shot Ultra 7
Mixture
Veterinary Vaccine

2. HAZARDS IDENTIFICATION

Appearance: Freeze-dried preparation

Signal Word: WARNING

Statement of Hazard: May cause allergic skin reaction.

Short Term: May cause eye and skin irritation. May cause allergic reaction . In the event of accidental

injection, an allergic reaction may occur. If an allergic reaction occurs, the worker should be removed to the nearest emergency room and the appropriate therapy instituted. Saponins have little toxicity for humans when ingested but have hemolytic effects when injected

intravenously.

EU Indication of danger: Irritant

EU Hazard Symbols:



EU Risk Phrases:

Australian Hazard Classification (NOHSC):

R43 - May cause sensitization by skin contact. Hazardous Substance. Non-Dangerous Goods.

Note: This document has been prepared in accordance with standards for workplace safety, which

require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

Material Name: Clostridium chauvoei-septicum-novyisordellii-perfringens Types C&D-pasteurella haemolytica
Page 2 of 7

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Saponin	8047-15-2	232-462-6	Not Listed	*
Formaldehyde	50-00-0	200-001-8	C;R34 Carc. Cat.3;R40 R43 T;R23/24/25	0.1 - <1.0%
Aluminum potassium sulfate	7784-24-9	Not Listed	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Clostridium perfringens type C	NOT ASSIGNED	Not Listed	Not Listed	*
Clostridium chauvoei	NOT ASSIGNED	Not Listed	Not Listed	*
Clostridium sordellii	NOT ASSIGNED	Not Listed	Not Listed	*
Clostridium septicum	NOT ASSIGNED	Not Listed	Not Listed	*
Clostridium perfringens type D	NOT ASSIGNED	Not Listed	Not Listed	*
Clostridium novyi	NOT ASSIGNED	Not Listed	Not Listed	*
Pasteurella haemolytica	NOT ASSIGNED	Not Listed	Not Listed	*

Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Identification and/or Section 11 - Toxicological Information.

5. FIRE FIGHTING MEASURES

Extinguishing Media: As for primary cause of fire.

Hazardous Combustion Products: Not known

Fire Fighting Procedures: Dike and collect water used to fight fire.

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Material Name: Clostridium chauvoei-septicum-novyi- Page 3 of 7

sordellii-perfringens Types C&D-pasteurella haemolytica

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spilled material by a method that

controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

Measures for Environmental

Protections:

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to

avoid environmental release.

Additional Consideration for Large

Spills:

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

General Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing

dust. Avoid contact with eyes, skin and clothing.

Storage Conditions: Store under refrigeration in closed container.

Storage Temperature: 2-7°C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

Formaldehyde

ACGIH Ceiling Threshold Limit: 0.3 ppm
ACGIH - Sensitizer Designation Listed
Australia STEL 2 ppm
2.5 mg/m³

Australia TWA 1 ppm

Austria OEL - MAKs

Bulgaria OEL - TWA

Czech Republic OEL - TWA

Estonia OEL - TWA

Listed

Estonia OEL - TWA

Listed

Finland OEL - TWA

Listed

France OEL - TWA

Listed

Germany (DFG) - MAK0.3 ppm MAK
0.37 mg/m³ MAK

Greece OEL - TWA Listed
Hungary OEL - TWA Listed
Ireland OEL - TWAs Listed
Japan - OELs - Ceilings 0.2 ppm
0.24 mg/m³

Latvia OEL - TWA
Listed
Lithuania OEL - TWA
Netherlands OEL - TWA
OSHA - Final PELS - TWAs:
0.24 mg/m
Listed
Listed
0.75 ppm

OSHA - Specifically Regulated Chemicals 0.5 ppm-Action Level

0.75 ppm-TWA 2 ppm-STEL

Material Name: Clostridium chauvoei-septicum-novyi- Page 4 of 7

sordellii-perfringens Types C&D-pasteurella haemolytica

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Poland OEL - TWAListedRomania OEL - TWAListedSlovenia OEL - TWAListedSweden OEL - TWAsListed

Engineering Controls: Engineering controls should be used as the primary means to control exposures. Exposure

monitoring may be necessary to determine requirements.

Environmental Exposure Controls: Refer to specific Member State legislation for requirements under Community environmental

legislation.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal

protective equipment (PPE).

Hands: Wear impervious gloves if skin contact is possible.

Eyes: Safety glasses or goggles

Skin: Wear protective clothing when working with large quantities. Wash hands and arms thoroughly

after handling this material.

Respiratory protection: In the event of a spill where the applicable Occupational Exposure Limit (OEL) may be

exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures

below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Freeze-dried preparation Color: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Polymerization: Will not occur

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Store at 2-7°C. Prolonged exposure to higher temperatures may adversely affect potency. Do

not freeze.

Incompatible Materials: This material can be denatured or inactivated by a variety of organic solvents, salts or heavy

metals.

Hazardous Decomposition Products: None expected under normal conditions.

11. TOXICOLOGICAL INFORMATION

General Information: The antigens included in this product are non-infectious. All have been prepared from killed or

inactivated preparations of microorganisms. The primary hazards are due to the formaldehyde

content

Acute Toxicity: (Species, Route, End Point, Dose)

Formaldehyde

Rat Oral LD50 800 mg/kg

Material Name: Clostridium chauvoei-septicum-novyi- Page 5 of 7

sordellii-perfringens Types C&D-pasteurella haemolytica

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

11. TOXICOLOGICAL INFORMATION

Irritation / Sensitization: (Study Type, Species, Severity)

Formaldehyde

Eye Irritation Rabbit Severe

Skin Irritation Rabbit Moderate Severe

Skin Irritation / Sensitization This product contains formaldehyde which is considered to be a skin sensitizer.

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Formaldehyde

90 Day(s) Dog Inhalation Not Specified Lungs 90 Day(s) Rat Inhalation Not Specified Lungs 90 Day(s) Monkey Inhalation Not Specified Lungs

9 Day(s) Rat Inhalation 15 ppm LOAEL Respiratory system

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Formaldehyde

Embryo / Fetal Development Mouse Oral 185 mg/kg/day Not teratogenic, Maternal toxicity Embryo / Fetal Development Rat Inhalation 40 ppm Not Teratogenic, Maternal Toxicity

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Formaldehyde

In Vitro Bacterial Mutagenicity (Ames) Bacteria Positive
In Vitro Chromosome Aberration Rodent Positive
In Vitro Sister Chromatid Exchange Rodent Positive
In Vivo Chromosome Aberration Not specified Positive

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Formaldehyde

2 Year(s) Rat Inhalation 6 ppm LOAEL Tumors2 Year(s) Mouse Inhalation 15 ppm LOAEL Tumors

Carcinogen Status: Contains formaldehyde: potential cancer hazard. See below

Formaldehyde

IARC:Group 1NTP:ListedOSHA:Present

12. ECOLOGICAL INFORMATION

Environmental Overview: Releases to the environment should be avoided. The environmental characteristics of this

material have not been fully evaluated.

Material Name: Clostridium chauvoei-septicum-novyi-

sordellii-perfringens Types C&D-pasteurella haemolytica

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

EU Symbol: Xi EU Indication of danger: Irritant

EU Risk Phrases:

R43 - May cause sensitization by skin contact.

EU Safety Phrases:

S24 - Avoid contact with skin. S37 - Wear suitable gloves.

OSHA Label:

WARNING

May cause allergic skin reaction.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



Saponin

0402B

Australia (AICS): Listed EU EINECS/ELINCS List 232-462-6

Material Name: Clostridium chauvoei-septicum-novyi- Page 7 of 7

sordellii-perfringens Types C&D-pasteurella haemolytica

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

15. REGULATORY INFORMATION

Formaldehyde

CERCLA/SARA 313 Emission reporting 0.1% de minimis concentration

CERCLA/SARA Hazardous Substances
and their Reportable Quantities:
45.4 kg final RQ
CERCLA/SARA - Section 302 Extremely Hazardous
500 lb TPQ

TPQs

CERCLA/SARA - Section 302 Extremely Hazardous

Substances EPCRA RQs California Proposition 65

Proposition 65 carcinogen, initial date 1/1/88 (gas)

OSHA - Specifically Regulated Chemicals

0.5 ppm-Action Level
0.75 ppm-TWA

2 ppm-STEL

100 lb

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Listed

Schedule 2

Schedule 6

200-001-8

Aluminum potassium sulfate

Australia (AICS): Listed

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R34 - Causes burns.

R43 - May cause sensitization by skin contact. R40 - Limited evidence of a carcinogenic effect

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

Data Sources: Pfizer proprietary drug development information. Safety data sheets for individual ingredients.

Publicly available toxicity information.

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on

Ingredients. Updated Section 4 - First Aid Measures. Updated Section 11 - Toxicology Information. Updated Section 13 - Disposal Considerations. Updated Section 15 - Regulatory

Information.

Prepared by: Product Stewardship Hazard Communications

Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet



Revision date: 07-Dec-2010 Version: 2.0 Page 1 of 7

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Pfizer Animal Health
Pfizer Inc
Street
CT13 9NJ
New York, NY 10017
Poison Control Center Phone: 1-866-531-8896
Pfizer Ltd,
Kent
CT13 9NJ
United Kingdom
+00 44 (0)1304 616161

Technical Services Phone: 1-800-366-5288

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: pfizer-MSDS@pfizer.com Emergency telephone number:

ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: Clostridium chauvoei-septicum-novyi-sordellii-perfringens Types C&D-pasteurella haemolytica Bacterin-Toxoid

Trade Name:
Chemical Family:
Intended Use:
One Shot Ultra 7
Mixture
Veterinary Vaccine

2. HAZARDS IDENTIFICATION

Appearance: Freeze-dried preparation

Signal Word: WARNING

Statement of Hazard: May cause allergic skin reaction.

Short Term: May cause eye and skin irritation. May cause allergic reaction . In the event of accidental

injection, an allergic reaction may occur. If an allergic reaction occurs, the worker should be removed to the nearest emergency room and the appropriate therapy instituted. Saponins have little toxicity for humans when ingested but have hemolytic effects when injected

intravenously.

EU Indication of danger: Irritant

EU Hazard Symbols:



EU Risk Phrases:

Australian Hazard Classification (NOHSC):

R43 - May cause sensitization by skin contact. Hazardous Substance. Non-Dangerous Goods.

Note: This document has been prepared in accordance with standards for workplace safety, which

require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

Material Name: Clostridium chauvoei-septicum-novyisordellii-perfringens Types C&D-pasteurella haemolytica
Page 2 of 7

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Saponin	8047-15-2	232-462-6	Not Listed	*
Formaldehyde	50-00-0	200-001-8	C;R34 Carc. Cat.3;R40 R43 T;R23/24/25	0.1 - <1.0%
Aluminum potassium sulfate	7784-24-9	Not Listed	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Clostridium perfringens type C	NOT ASSIGNED	Not Listed	Not Listed	*
Clostridium chauvoei	NOT ASSIGNED	Not Listed	Not Listed	*
Clostridium sordellii	NOT ASSIGNED	Not Listed	Not Listed	*
Clostridium septicum	NOT ASSIGNED	Not Listed	Not Listed	*
Clostridium perfringens type D	NOT ASSIGNED	Not Listed	Not Listed	*
Clostridium novyi	NOT ASSIGNED	Not Listed	Not Listed	*
Pasteurella haemolytica	NOT ASSIGNED	Not Listed	Not Listed	*

Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Identification and/or Section 11 - Toxicological Information.

5. FIRE FIGHTING MEASURES

Extinguishing Media: As for primary cause of fire.

Hazardous Combustion Products: Not known

Fire Fighting Procedures: Dike and collect water used to fight fire.

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Material Name: Clostridium chauvoei-septicum-novyi- Page 3 of 7

sordellii-perfringens Types C&D-pasteurella haemolytica

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spilled material by a method that

controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

Measures for Environmental

Protections:

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to

avoid environmental release.

Additional Consideration for Large

Spills:

Non-essential personnel should be evacuated from affected area. Report emergency

situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

General Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing

dust. Avoid contact with eyes, skin and clothing.

Storage Conditions: Store under refrigeration in closed container.

Storage Temperature: 2-7°C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

Formaldehyde

ACGIH Ceiling Threshold Limit:

ACGIH - Sensitizer Designation

Australia STEL

2 ppm
2.5 mg/m³

Australia TWA 1 ppm

Austria OEL - MAKs

Bulgaria OEL - TWA

Czech Republic OEL - TWA

Estonia OEL - TWA

Listed

Listed

Listed

Listed

Listed

Listed

Listed

France OEL - TWA Listed
Germany (DFG) - MAK 0.3 ppm MAK

0.3 ppm MAK 0.37 mg/m³ MAK

Greece OEL - TWA Listed
Hungary OEL - TWA Listed
Ireland OEL - TWAs Listed
Japan - OELs - Ceilings 0.2 ppm

Usted CEL - TWA Listed Listed Lithuania OEL - TWA Listed Listed Netherlands OEL - TWA Listed OSHA - Final PELS - TWAs: 0.75 ppm

OSHA - Specifically Regulated Chemicals 0.5 ppm-Action Level

0.75 ppm-TWA 2 ppm-STEL

Material Name: Clostridium chauvoei-septicum-novyi- Page 4 of 7

sordellii-perfringens Types C&D-pasteurella haemolytica

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Poland OEL - TWAListedRomania OEL - TWAListedSlovenia OEL - TWAListedSweden OEL - TWAsListed

Engineering Controls: Engineering controls should be used as the primary means to control exposures. Exposure

monitoring may be necessary to determine requirements.

Environmental Exposure Controls: Refer to specific Member State legislation for requirements under Community environmental

legislation.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal

protective equipment (PPE).

Hands: Wear impervious gloves if skin contact is possible.

Eyes: Safety glasses or goggles

Skin: Wear protective clothing when working with large quantities. Wash hands and arms thoroughly

after handling this material.

Respiratory protection: In the event of a spill where the applicable Occupational Exposure Limit (OEL) may be

exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures

below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Freeze-dried preparation Color: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Polymerization: Will not occur

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Store at 2-7°C. Prolonged exposure to higher temperatures may adversely affect potency. Do

not freeze.

Incompatible Materials: This material can be denatured or inactivated by a variety of organic solvents, salts or heavy

metals.

Hazardous Decomposition Products: None expected under normal conditions.

11. TOXICOLOGICAL INFORMATION

General Information: The antigens included in this product are non-infectious. All have been prepared from killed or

inactivated preparations of microorganisms. The primary hazards are due to the formaldehyde

content

Acute Toxicity: (Species, Route, End Point, Dose)

Formaldehyde

Rat Oral LD50 800 mg/kg

Material Name: Clostridium chauvoei-septicum-novyi- Page 5 of 7

sordellii-perfringens Types C&D-pasteurella haemolytica

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

11. TOXICOLOGICAL INFORMATION

Irritation / Sensitization: (Study Type, Species, Severity)

Formaldehyde

Eye Irritation Rabbit Severe

Skin Irritation Rabbit Moderate Severe

Skin Irritation / Sensitization This product contains formaldehyde which is considered to be a skin sensitizer.

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Formaldehyde

90 Day(s) Dog Inhalation Not Specified Lungs 90 Day(s) Rat Inhalation Not Specified Lungs 90 Day(s) Monkey Inhalation Not Specified Lungs

9 Day(s) Rat Inhalation 15 ppm LOAEL Respiratory system

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Formaldehyde

Embryo / Fetal Development Mouse Oral 185 mg/kg/day Not teratogenic, Maternal toxicity Embryo / Fetal Development Rat Inhalation 40 ppm Not Teratogenic, Maternal Toxicity

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Formaldehyde

In Vitro Bacterial Mutagenicity (Ames) Bacteria Positive
In Vitro Chromosome Aberration Rodent Positive
In Vitro Sister Chromatid Exchange Rodent Positive
In Vivo Chromosome Aberration Not specified Positive

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Formaldehyde

2 Year(s) Rat Inhalation 6 ppm LOAEL Tumors 2 Year(s) Mouse Inhalation 15 ppm LOAEL Tumors

Carcinogen Status: Contains formaldehyde: potential cancer hazard. See below

Formaldehyde

IARC: Group 1
NTP: Listed
OSHA: Present

12. ECOLOGICAL INFORMATION

Environmental Overview: Releases to the environment should be avoided. The environmental characteristics of this

material have not been fully evaluated.

Material Name: Clostridium chauvoei-septicum-novyi- Page 6 of 7

sordellii-perfringens Types C&D-pasteurella haemolytica

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

EU Symbol: Xi EU Indication of danger: Irritant

EU Risk Phrases:

R43 - May cause sensitization by skin contact.

EU Safety Phrases:

S24 - Avoid contact with skin. S37 - Wear suitable gloves.

OSHA Label:

WARNING

May cause allergic skin reaction.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



Saponin

Australia (AICS): Listed EU EINECS/ELINCS List 232-462-6

Material Name: Clostridium chauvoei-septicum-novyi- Page 7 of 7

sordellii-perfringens Types C&D-pasteurella haemolytica

Bacterin-Toxoid

Revision date: 07-Dec-2010 Version: 2.0

15. REGULATORY INFORMATION

Formaldehyde

CERCLA/SARA 313 Emission reporting 0.1% de minimis concentration

CERCLA/SARA Hazardous Substances
and their Reportable Quantities:
45.4 kg final RQ
CERCLA/SARA - Section 302 Extremely Hazardous
500 lb TPQ

TPQs

CERCLA/SARA - Section 302 Extremely Hazardous

Substances EPCRA RQs California Proposition 65

carcinogen, initial date 1/1/88 (gas)

OSHA - Specifically Regulated Chemicals

0.5 ppm-Action Level
0.75 ppm-TWA

2 ppm-STEL

100 lb

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Listed

Schedule 2

Schedule 6

200-001-8

Aluminum potassium sulfate

Australia (AICS): Listed

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R34 - Causes burns.

R43 - May cause sensitization by skin contact. R40 - Limited evidence of a carcinogenic effect

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

Data Sources: Pfizer proprietary drug development information. Safety data sheets for individual ingredients.

Publicly available toxicity information.

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on

Ingredients. Updated Section 4 - First Aid Measures. Updated Section 11 - Toxicology Information. Updated Section 13 - Disposal Considerations. Updated Section 15 - Regulatory

Information.

Prepared by: Product Stewardship Hazard Communications

Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet